

WHAT IS CLAIMED IS:

1. A recording apparatus for forming an image on a recording medium, comprising:

recording means for performing recording by applying a recording material onto the recording medium, the recording means recording at least one of a positional information image representing positional information corresponding to the position where the positional information image is recorded and the other image; and

a control means for controlling the recording such that the recording means records the positional information image with a recording material capable of being detected by a predetermined detector, and said other image with another recording material incapable of being detected by the detector.

2. A recording apparatus according to Claim 1, wherein the recording material used for recording the positional information image contains carbon, and the recording material used for recording said other image is carbon-free.

3. A recording apparatus according to Claim 1, wherein the recording material used for recording the positional information image comprises one of a pigment ink containing

carbon and a dye ink containing carbon, and the recording material used for recording said other image comprises one of a carbon-free pigment ink and a carbon-free dye ink.

4. A recording apparatus according to Claim 1, wherein the recording material for the positional information image is black, and the recording material for said other image is a plurality of recording materials capable of recording a color image.

5. A recording apparatus according to Claim 4, wherein the plurality of recording materials correspond to a plurality of colors including yellow, magenta, and cyan.

6. A recording apparatus according to Claim 4, wherein the plurality of recording materials have a plurality of colors including yellow, magenta, cyan, and black.

7. A recording apparatus according to Claim 1, wherein the positional information image is expressed by a combination pattern of a plurality of spots to represent the positional information.

8. A recording apparatus according to Claim 1, wherein the positional information is associated with coordinates on

the recording medium.

9. A recording apparatus according to Claim 1, wherein the positional information is associated with coordinates on a virtual plane beyond the area of the recording medium.

10. A method for recording an image with a recording apparatus that applies a recording material onto a recording medium, the method comprising:

the recording step of recording at least one of a positional information image corresponding to positional information representing at least positions on the recording medium and the other image, on the recording medium; and

the control step of controlling the recording step such that the positional information image is recorded with a recording material capable of being detected by a predetermined detector, and said the other image is recorded with another recording material incapable of being detected by the detector.

11. A recording medium including:
a pattern image designating positions at least thereon, the pattern image being recorded by applying a first recording material capable of being detected by a predetermined detector; and

the other image recorded by applying a second recording material incapable of being detected by the detector.

12. A recording system comprising:

a recording apparatus for performing recording by applying a recording material onto a recording medium according to image data, the recording apparatus recording positional information representing positions on at least the recording medium and the other image, the recording apparatus including control means for controlling recording such that the positional information is recorded with a recording material capable of being detected by a predetermined detector, and said the other image is recorded with a recording material incapable of being detected by the detector; and

a transmitting apparatus for transmitting the image data to the recording apparatus, the transmitting apparatus including image data preparation means and image data transmission means.

13. A program for controlling a recording apparatus for recording an image by applying a recording material onto a recording medium, the program performing:

the recording step of recording an positional information image corresponding to positional information

representing positions on at least the recording medium and the other image, on the recording medium;

the control step of controlling the recording step such that the positional information image is recorded with a recording material capable of being detected by a predetermined detector, and said the other image is recorded with another recording material incapable of being detected by the detector.